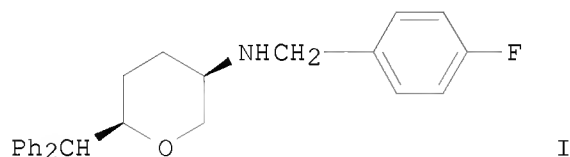


L12 ANSWER 5 OF 5 ZCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:293632 ZCAPLUS <<LOGINID::20090928>>
DOCUMENT NUMBER: 139:197329
TITLE: Design, synthesis, and activity of novel cis- and trans-3,6-disubstituted pyran biomimetics of 3,6-disubstituted piperidine as potential ligands for the dopamine transporter
AUTHOR(S): Zhang, Shijun; Reith, Maarteen E. A.; Dutta, Alope K.
CORPORATE SOURCE: Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI, 48202, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(9), 1591-1595
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:197329
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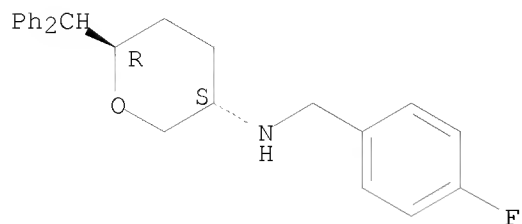


AB In our effort to develop novel mols. for the dopamine transporter, we converted our previously designed dopamine transporter specific 3,6-disubstituted piperidine template into corresponding pyran derivs. Cis-Pyran derivative I, like their piperidine counterparts, exhibited greater activity for the dopamine transporter compared to the trans-isomer. Further mol. modifications of the cis derivative led to the development of potent analogs which indicated successful bioisosteric replacement of the piperidine ring by a pyran moiety in these 3,6-disubstituted derivs.

IT 585540-92-7P 585540-93-8P 585540-95-0P
585540-96-1P 585540-97-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of pyran biomimetics of piperidine as potential ligands for the dopamine transporter)

RN 585540-92-7 ZCAPLUS
CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, (3R,6S)-rel- (CA INDEX NAME)

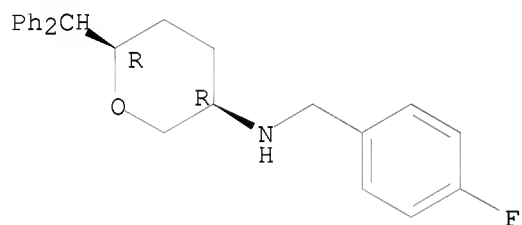
Relative stereochemistry.



RN 585540-93-8 ZCAPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, (3R,6R)-rel- (CA INDEX NAME)

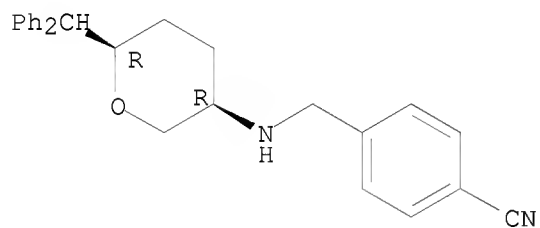
Relative stereochemistry.



RN 585540-95-0 ZCAPLUS

CN Benzonitrile, 4-[[[(3R,6R)-6-(diphenylmethyl)tetrahydro-2H-pyran-3-yl]amino]methyl]-, rel- (CA INDEX NAME)

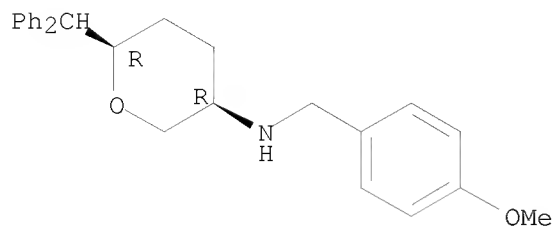
Relative stereochemistry.



RN 585540-96-1 ZCAPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)tetrahydro-N-[(4-methoxyphenyl)methyl]-, (3R,6R)-rel- (CA INDEX NAME)

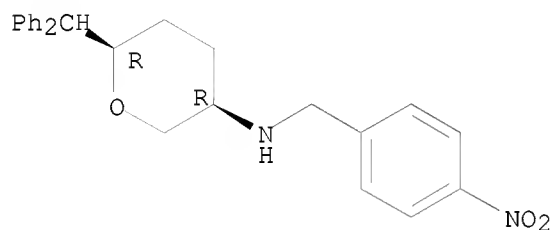
Relative stereochemistry.



RN 585540-97-2 ZCAPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)tetrahydro-N-[(4-nitrophenyl)methyl]-, (3R,6R)-rel- (CA INDEX NAME)

Relative stereochemistry.



IT 585540-98-3P 585540-99-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of pyran biomimetics of piperidine as potential ligands for the dopamine transporter)

RN 585540-98-3 ZCAPLUS

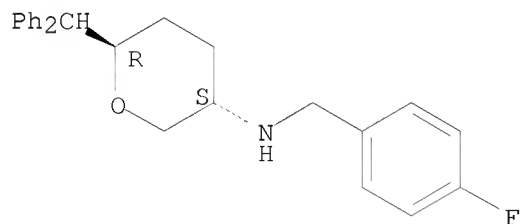
CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, ethanedioate (1:1), (3R,6S)-rel- (CA INDEX NAME)

CM 1

CRN 585540-92-7

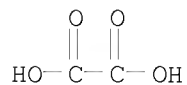
CMF C25 H26 F N O

Relative stereochemistry.



CM 2

CRN 144-62-7
CMF C2 H2 O4

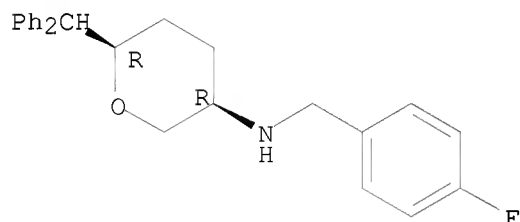


RN 585540-99-4 ZCAPLUS
CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, ethanedioate (1:1), (3R,6R)-rel- (CA INDEX NAME)

CM 1

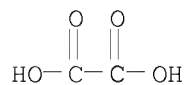
CRN 585540-93-8
CMF C25 H26 F N O

Relative stereochemistry.



CM 2

CRN 144-62-7
CMF C2 H2 O4



OS.CITING REF COUNT:	14	THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT:	17	THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT